



IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **ARTICLE COMPRISING A TWO-DIMENSIONAL PHOTONIC CRYSTAL COUPLER AND METHOD OF MAKING THE SAME** the specification of which was filed on January 11, 2000, under Serial No. 09/480,409.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Lester H. Birnbaum	(Reg. No. 25830)
Richard J. Botos	(Reg. No. 32016)
Jeffery J. Brosemer	(Reg. No. 36096)
Kenneth M. Brown	(Reg. No. 37590)
Craig J. Cox	(Reg. No. 39643)
Donald P. Dinella	(Reg. No. 39961)
Guy Eriksen	(Reg. No. 41736)
Martin I. Finston	(Reg. No. 31613)
James H. Fox	(Reg. No. 29379)
William S. Francos	(Reg. No. 38456)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Mony R. Ghose	(Reg. No. 38159)
Jimmy Goo	(Reg. No. 36528)
Anthony Grillo	(Reg. No. 36535)
Stephen M. Gurey	(Reg. No. 27336)
John M. Harman	(Reg. No. 38173)
Michael B. Johannesen	(Reg. No. 35557)
Mark A. Kurisko	(Reg. No. 38944)
Irena Lager	(Reg. No. 39260)
Christopher N. Malvone	(Reg. No. 34866)
Scott W. McLellan	(Reg. No. 30776)
Martin G. Meder	(Reg. No. 34674)
John C. Moran	(Reg. No. 30782)
Michael A. Morra	(Reg. No. 28975)
Gregory J. Murgia	(Reg. No. 41209)
Claude R. Narcisse	(Reg. No. 38979)
Joseph J. Opalach	(Reg. No. 36229)
Neil R. Ormos	(Reg. No. 35309)
Eugen E. Pacher	(Reg. No. 29964)
Jack R. Penrod	(Reg. No. 31864)
Daniel J. Piotrowski	(Reg. No. 42079)
Gregory C. Ranieri	(Reg. No. 29695)
Scott J. Rittman	(Reg. No. 39010)
Eugene J. Rosenthal	(Reg. No. 36658)
Bruce S. Schneider	(Reg. No. 27949)
Ronald D. Slusky	(Reg. No. 26585)
David L. Smith	(Reg. No. 30592)
Patricia A. Verlangieri	(Reg. No. 42201)
John P. Veschi	(Reg. No. 39058)
David Volejnicek	(Reg. No. 29355)
Charles L. Warren	(Reg. No. 27407)
Jeffrey M. Weinick	(Reg. No. 36304)

Eli Weiss

(Reg. No. 17765)

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name of 1st joint inventor: ANANTH DODABALAPUR

Inventor's
signature Ananth Dodabalapur Date 3/9/00

Residence: Millington, County of Morris and State of New Jersey

Citizenship: India

Post Office Address: 62 Hilltop Road
Millington, New Jersey 07946

Full name of 2nd joint inventor: ATTILA MEKIS

Inventor's
signature Attila Mekis Date 3/20/00

Residence: Cambridge, County of Middlesex and State of Massachusetts

Citizenship: Hungary

Post Office Address: 540 Memorial Drive, Apt. 1409
Cambridge, Massachusetts 02139

Full name of 3rd joint inventor: JOHN A. ROGERS

Inventor's
signature

John A. Rogers

Date

3/10/00

Residence: New Providence, County of Union and State of New Jersey

Citizenship: United States of America

Post Office Address: 1200 Springfield Avenue, Apt. 1C
New Providence, New Jersey 07974

Full name of 4th joint inventor: RICHART ELLIOTT SLUSHER

Inventor's
signature

Richard E. Slusher

Date

3/15/00

Residence: Lebanon, County of Hunterdon and State of New Jersey

Citizenship: United States of America

Post Office Address: 79 Guinea Hollow Road
Lebanon, New Jersey 08833

ATTACHMENT A

Attorney Name(s):	Bruce M. Collins	Reg. No.:	20,066
	Ronald Gould	Reg. No.:	28,299
	Diane Dunn McKay	Reg. No.:	34,586
	Glen E. Books	Reg. No.	24,950
	Anastasia P. Winslow	Reg. No.:	40,875
	Charles J. Brumlik	Reg. No.:	42,367
	Mary S. Kakefuda	Reg. No.	39,245

Telephone calls should be made to Anastasia P. Winslow at:

Phone No.: 609-924-8555

Fax No.: 609-924-3036

All written communications are to be addressed to:

Anastasia P. Winslow, Esq.
Mathews, Collins, Shepherd & Gould, P.A.
100 Thanet Circle, Suite 306
Princeton, NJ 08540

#3



IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **ARTICLE COMPRISING A TWO-DIMENSIONAL PHOTONIC CRYSTAL COUPLER AND METHOD OF MAKING THE SAME** the specification of which was filed on January 11, 2000, under Serial No. 09/480,409.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Lester H. Birnbaum	(Reg. No. 25830)
Richard J. Botos	(Reg. No. 32016)
Jeffery J. Brosemer	(Reg. No. 36096)
Kenneth M. Brown	(Reg. No. 37590)
Craig J. Cox	(Reg. No. 39643)
Donald P. Dinella	(Reg. No. 39961)
Guy Eriksen	(Reg. No. 41736)
Martin I. Finston	(Reg. No. 31613)
James H. Fox	(Reg. No. 29379)
William S. Francos	(Reg. No. 38456)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Mony R. Ghose	(Reg. No. 38159)
Jimmy Goo	(Reg. No. 36528)
Anthony Grillo	(Reg. No. 36535)
Stephen M. Gurey	(Reg. No. 27336)
John M. Harman	(Reg. No. 38173)
Michael B. Johannesen	(Reg. No. 35557)
Mark A. Kurisko	(Reg. No. 38944)
Irena Lager	(Reg. No. 39260)
Christopher N. Malvone	(Reg. No. 34866)
Scott W. McLellan	(Reg. No. 30776)
Martin G. Meder	(Reg. No. 34674)
John C. Moran	(Reg. No. 30782)
Michael A. Morra	(Reg. No. 28975)
Gregory J. Murgia	(Reg. No. 41209)
Claude R. Narcisse	(Reg. No. 38979)
Joseph J. Opalach	(Reg. No. 36229)
Neil R. Ormos	(Reg. No. 35309)
Eugen E. Pacher	(Reg. No. 29964)
Jack R. Penrod	(Reg. No. 31864)
Daniel J. Piotrowski	(Reg. No. 42079)
Gregory C. Ranieri	(Reg. No. 29695)
Scott J. Rittman	(Reg. No. 39010)
Eugene J. Rosenthal	(Reg. No. 36658)
Bruce S. Schneider	(Reg. No. 27949)
Ronald D. Slusky	(Reg. No. 26585)
David L. Smith	(Reg. No. 30592)
Patricia A. Verlangieri	(Reg. No. 42201)
John P. Veschi	(Reg. No. 39058)
David Volejnicek	(Reg. No. 29355)
Charles L. Warren	(Reg. No. 27407)
Jeffrey M. Weinick	(Reg. No. 36304)

Eli Weiss

(Reg. No. 17765)

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name of 1st joint inventor: ANANTH DODABALAPUR

Inventor's
signature Ananth Dodabalapur Date 3/9/00

Residence: Millington, County of Morris and State of New Jersey

Citizenship: India

Post Office Address: 62 Hilltop Road
Millington, New Jersey 07946

Full name of 2nd joint inventor: ATTILA MEKIS

Inventor's
signature Attila Mekis Date 3/20/00

Residence: Cambridge, County of Middlesex and State of Massachusetts

Citizenship: Hungary

Post Office Address: 540 Memorial Drive, Apt. 1409
Cambridge, Massachusetts 02139

Full name of 3rd joint inventor: JOHN A. ROGERS

Inventor's
signature John A. Rogers Date 3/10/00

Residence: New Providence, County of Union and State of New Jersey

Citizenship: United States of America

Post Office Address: 1200 Springfield Avenue, Apt. 1C
New Providence, New Jersey 07974

Full name of 4th joint inventor: RICHART ELLIOTT SLUSHER

Inventor's
signature Richard E. Slusher Date 3/15/00

Residence: Lebanon, County of Hunterdon and State of New Jersey

Citizenship: United States of America

Post Office Address: 79 Guinea Hollow Road
Lebanon, New Jersey 08833

ATTACHMENT A

Attorney Name(s):	Bruce M. Collins	Reg. No.:	20,066
	Ronald Gould	Reg. No.:	28,299
	Diane Dunn McKay	Reg. No.:	34,586
	Glen E. Books	Reg. No.	24,950
	Anastasia P. Winslow	Reg. No.:	40,875
	Charles J. Brumlik	Reg. No.:	42,367
	Mary S. Kakefuda	Reg. No.	39,245

Telephone calls should be made to Anastasia P. Winslow at:

Phone No.: 609-924-8555

Fax No.: 609-924-3036

All written communications are to be addressed to:

Anastasia P. Winslow, Esq.
Mathews, Collins, Shepherd & Gould, P.A.
100 Thanet Circle, Suite 306
Princeton, NJ 08540